

Support for claim 51 can be found in the specification including, for example, on page 4, lines 14-16; page 7, lines 20-24; page 8, lines 16-22; page 11, line 28, through page 12, line 5; and page 12, lines 10-12. Support for claim 52 can be found in the specification including, for example, on page 12, lines 18-23; and page 8, lines 3-6 and 16-22. Support for claims 53-67 can be found in the specification including, for example, on page 8, lines 10-14. Accordingly, the newly added claims do not raise an issue of new matter and entry thereof is respectfully requested.

The description has been amended to correct several obvious typographical errors. The reference numeral 13' on page 11 has been changed to 13 to make it consistent with the reference numeral in Figure 2, which is the subject of the paragraph being amended. In the full paragraph on page 17, two references to the third beam, on lines 13 and 17, have been corrected from "7a" to "7b". This makes the description consistent with Figure 4B and corrects the error of usage of the reference numeral "7a" for two different beams. In addition, the reference to the "middle" panel of the figure on line 18 has been corrected to a reference to the bottom panel since Figure 4 has only two parts, Figs. 4A and 4B. Fig. 4A is referred to as the "top panel of the figure" on line 16. The changes to the description merely correct obvious formal errors and make the text consistent with the drawings. They do not add any new matter.

CONCLUSION

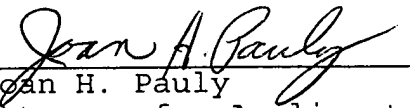
The applicant submits that each of claims 1-67 is in

condition for allowance and respectfully requests allowance of claims 1-67.

Attached hereto is a marked-up version of the changes made to the claims by the current amendments. The attached marked-up version is captioned Version with Markings to Show Changes Made.

Respectfully submitted,

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Version with Markings to Show Changes Made

IN THE DESCRIPTION

The last sentence of the first full paragraph on page 11, lines 16-18 has been amended as follows:

An apparatus for determining radiation beam alignment is represented in Figure 2. A radiation beam 6 contacts a pin hole mirror 1 and either passes through the pin hole 1b as a beam 7 or is redirected as a reflection 8 from the reflective surface 1a in a direction toward an imaging device 2. As shown in the figure the apparatus can optionally contain a lens 3 that collimates radiation 5 emitted from an optional sample 4 and directs the radiation as a beam 6 toward the pin hole mirror. Additionally, the apparatus can optionally contain a spectrum selective filter [13'] 13 that filters radiation 8 reflected by the reflective surface 1a.

The paragraph beginning at page 17, line 5, has been amended as follows:

Figure 4B represents a side view of the optical layout shown in Figure 4A. An optional lens 3 collimates radiation emitted from 3 locations 5a, 5b and 5c of a sample 4 to produce collimated radiation beams 6a, 6b and 6c which pass through the holes 1b, 1c and 1d in the pin hole mirror 1. Two of the beams 7a and 7c contact the two prisms 1e and 1f and are directed in opposite directions from each other and orthogonal to a third beam [7a] 7b which is allowed to propagate in a forward direction. The prisms 1e and 1f being rotated at an angle β with respect to a line intersecting the three pin holes, as shown in the top panel of the figure, are placed to direct beams 7a and 7c orthogonal to beam [7a] 7b when the pin hole mirror is positioned, as shown in the [middle] bottom panel of the figure, at an angle β from a plane orthogonal to the propagation direction for the radiation beam 6 contacting the pin hole mirror.

Claims 51-67 have been added as follows:

51. A radiation directing device, comprising a mirrored surface interrupted by one or more pin holes, said pin holes having an elliptical shape, wherein said mirrored surface prevents passage of radiation in the UV, VIS or IR regions of the spectrum.

52. A radiation directing device, comprising a metal coating of a mirror, said metal coating interrupted by one or more pin holes, said pin holes having an elliptical shape.

53. The radiation directing device of claim 1, wherein said pin hole comprises a material transparent to radiation in the UV, VIS or IR regions of the spectrum.

54. The radiation directing device of claim 53, wherein said material comprises quartz.

55. The radiation directing device of claim 53, wherein said material comprises glass.

56. The radiation directing device of claim 8, wherein said pin hole comprises a material transparent to radiation in the UV, VIS or IR regions of the spectrum.

57. The radiation directing device of claim 56, wherein said material comprises quartz.

58. The radiation directing device of claim 56, wherein said material comprises glass.

59. The apparatus of claim 19, wherein said pin hole comprises a material transparent to radiation in the UV, VIS or IR regions of the spectrum.

60. The apparatus of claim 59, wherein said material comprises quartz.

61. The apparatus of claim 59, wherein said material comprises glass.

62. The apparatus of claim 33, wherein said pin hole comprises a material transparent to radiation in the UV, VIS or IR regions of the spectrum.

63. The apparatus of claim 62, wherein said material comprises quartz.

64. The apparatus of claim 62, wherein said material comprises glass.

65. The automated system of claim 48, wherein said pin hole comprises a material transparent to radiation in the UV, VIS or IR regions of the spectrum.

66. The automated system of claim 65, wherein said material comprises quartz.

67. The automated system of claim 65, wherein said material comprises glass.